

Chapter 5

Strategic Signal Organizations

The strategic signal organizations support the warfighter by providing intra-theater and/or inter-theater communications to support power projection and C2 of forces. These units can provide C2 systems from the NCA to CINCs. Organizational structure of theater missions is different and unique; thus, there are no set standards that meet all theater requirements. However, the fundamental mission (C2 and signal support) remains the same for all organizations.

HHC STRATEGIC SIGNAL BRIGADE, TOE 11622A000

5-1. This unit's mission is to command and control EAC strategic signal battalions and sustaining-base organizations and to be organized to support the power projection platform required to support force projection and split-based operations. This unit can be assigned to a TSC, if there is a TSC in the theater, or to the USASC. See Appendix C for further information on this organization.

5-2. This unit provides–

- C2, staff planning, and supervision of assigned and attached units.
- Supervision of the functions of signal support: communications, automation, and VI.
- Planning, engineering, and control of strategic communications systems.
- Coordination of training, administration, and logistical support to assigned units.

HHD STRATEGIC SIGNAL BATTALION, TOE 11656A

5-3. This unit's mission is to provide C2 and supervision of the operations and activities of its assigned units. This unit has four versions due to the various equipment and information mission needs of the theater (see Table 5-1). See Appendix C for further information on these organizations.

5-4. This unit provides–

- C2, staff planning, and supervision of assigned and attached units.
- Supervision of the signal support functions of communications, automation, and visual information support to units and headquarters within its area of operations.

- Planning, engineering, and control of the strategic communications systems.
- Coordination of training, administration, and logistical support to assigned units.

Table 5-1. Versions of the HHD Strategic Signal Battalion

Version	Description
V1, TOE 11656A100	Units needing a basic signal support staff. All personnel are assigned to a subordinate unit for strength accounting, administration, logistics, and Uniform Code of Military Justice (UCMJ).
V2, TOE 11656A200	Units operating independently, needing a headquarters detachment in addition to basic signal support requirements.
V3, TOE 11656A300	Units needing a headquarters detachment and maintenance and chaplain support in addition to basic signal support requirements.
V4, TOE 11656A400	Units that are authorized a basic signal support staff. This unit relies on tables of distribution and allowances (TDA) augmentation for strength accounting, administrative, and logistics functions.

ARMY MAINTENANCE SUPPORT FACILITY (AMSF), TOE PENDING APPROVAL

5-5. There are two maintenance facilities worldwide, one assigned to a strategic signal battalion and the other assigned to a TSC. In time of war, these facilities support the appropriate CINC from their current location. The units currently support the USASC worldwide mission, with one supporting theater/strategic communications in Europe-Southwest Asia and another supporting the Pacific area.

5-6. These facilities provide centralized DS/GS supply and maintenance and depot level repair of communications and automation equipment for the Army and other DOD and non-DOD customers. They support a multitude of different items including computers, sophisticated technical equipment, CE components, and strategic and tactical DSCS.

STRATEGIC SIGNAL DETACHMENT

5-7. The strategic signal detachment's tasking, mission, and capabilities are discussed below. It has four versions due to the various equipment and information mission of the theater.

STRATEGIC SIGNAL DETACHMENT (V1) THEATER COMSEC LOGISTICS SUPPORT CENTER (TCLSC), TOE PENDING APPROVAL

5-8. This unit is forward deployed and can provide mission support to intra-theater and inter-theater. Its mission is to provide:

- Theater level DS/GS COMSEC logistic support.
- DS/GS COMSEC and controlled cryptographic items (CCI) maintenance support to US Army forces, other military departments, US government agencies, and allied forces, as directed or required.

5-9. This unit–

- Commands, controls, and supervises assigned and attached personnel.
- Operates and safeguards a COMSEC facility.
- Sustains theater strategic C4I COMSEC systems.
- Deploys C4I COMSEC systems.

5-10. This unit depends on the appropriate Army units for health, financial, legal, and food service support; chaplain assistance; NBC decontamination; supplemental transportation services; and appropriate units for DS/GS maintenance of CE equipment. The force has only one of these units.

5-11. This unit has a detachment headquarters, COMSEC management platoon, COMSEC maintenance platoon, and SRA section (see Figure 5-1).

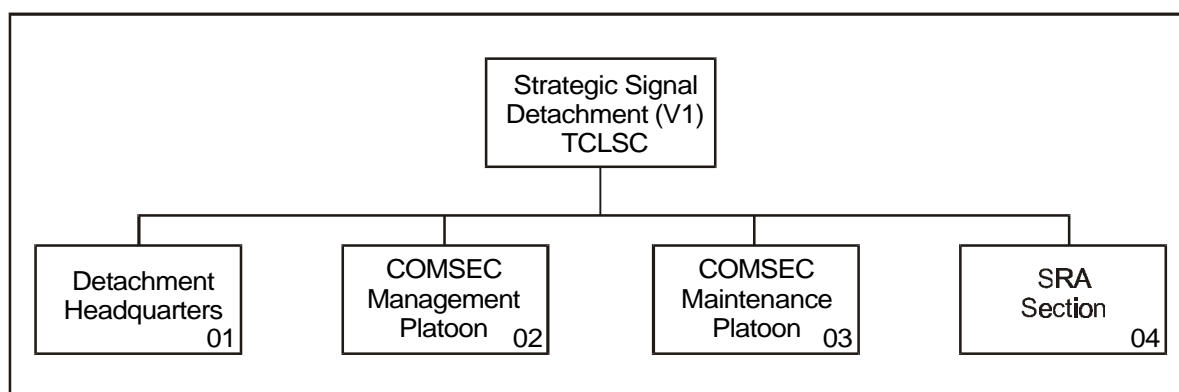


Figure 5-1. Strategic Signal Detachment (V1) TCLSC

Detachment Headquarters

5-12. This section provides C2 and supervision over personnel assigned or attached to the detachment.

COMSEC Management Platoon

5-13. This section–

- Provides operation of the Army Theater Central Office of Record (TCOR) for centralized management and control.
- Reports all accountable COMSEC material to Army COMSEC Central Office of Record (ACCOR) within the AOR.
- Serves as the COMSEC drop/pickup point for the defense courier service and other secure means for COMSEC material entering or leaving the theater.
- Provides approval authority for direct delivery to theater accounts during peacetime operations; provides delivery to theater accounts during wartime operations.

COMSEC Maintenance Platoon

5-14. This section provides COMSEC maintenance support to all US Army forces, military departments, US government agencies, and allies as directed in the AOR.

Specialized Repair Activity Section

5-15. This section is programmable automated test equipment (ATE) used to repair circuit boards and assemblies down to component level for CCI and COMSEC equipment.

STRATEGIC SIGNAL DETACHMENT (V2) TCLSC, TOE PENDING APPROVAL

5-16. This unit is forward deployed and can provide mission support to intra-theater. Its mission is to provide:

- Theater level DS/GS COMSEC logistic support.
- DS/GS COMSEC and CCI maintenance support to US Army forces, other military departments, US government agencies, and allied forces, as directed or required.

5-17. This unit provides C2 and supervision of assigned and attached personnel. It is responsible for operating the Army TCOR. It also provides GS and limited SRA and backup DS maintenance.

5-18. This unit depends on the appropriate Army units for health, financial, legal, and food service support; chaplain assistance; NBC decontamination; supplemental transportation services; and appropriate units for direct and general support maintenance of CE equipment. The force has only one of these units.

5-19. This unit has a detachment headquarters, COMSEC management platoon, and COMSEC maintenance platoon (see Figure 5-2).

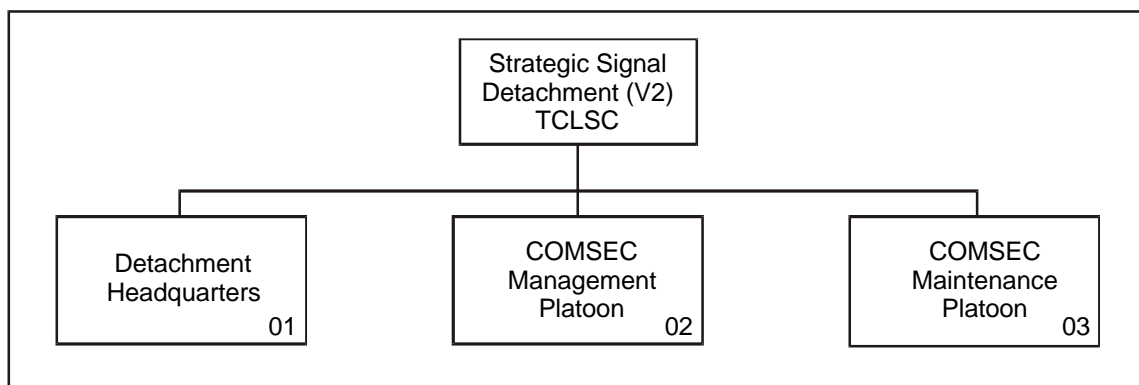


Figure 5-2. Strategic Signal Detachment (V2) TCLSC

Detachment Headquarters

5-20. This section provides C2 and supervision over personnel assigned or attached to the detachment.

COMSEC Management Platoon

5-21. This section provides operation of the Army TCOR for centralized management and control. It–

- Reports to ACCOR for all accountable COMSEC material within the AOR.
- Serves as the COMSEC drop/pickup point for the defense courier service and other secure means for COMSEC material entering or leaving the theater.
- Provides approval authority for direct delivery to theater accounts during peacetime operations; provides delivery to theater accounts during wartime operations.

COMSEC Maintenance Platoon

5-22. This section provides COMSEC maintenance support to all Army forces, military departments, US government agencies, and allies as directed in the AOR.

STRATEGIC SIGNAL DETACHMENT (V3) SIGNAL SYSTEMS ENGINEERING AND IMPLEMENTATION DETACHMENT, TOE PENDING APPROVAL

5-23. This unit is forward deployed provides mission support to intra-theater. Its mission is to provide overall management, technical oversight, and coordination of TA signal projects. This includes engineering, installation, acceptance, and follow-on life-cycle performance evaluation of signal systems and facilities that are part of the TA strategic/sustaining-base information architecture.

5-24. This unit's primary mission is to reconstitute/sustain the strategic communications systems in a combat environment. In case of hostilities, normal strategic communications systems can experience disruption to varying degrees.

5-25. This unit provides the military spaces used to reestablish/restore strategic communications systems within the TSC. It exercises final technical authority within the TSC or forward-stationed brigade over engineering and scientific aspects for design, applications, automation, test, and installation of signal systems.

5-26. This unit represents the TSC or forward-stationed brigade as a recognized signal authority by providing technical assistance to higher and lateral headquarters and to joint service activities. It assists the TSC or forward-stationed brigade in developing TSC policies and implementing USASC policies in accomplishing the USASC warfighting mission.

5-27. This unit–

- Commands, controls, and supervises assigned and attached personnel.
- Provides demonstrative and logistical support for assigned and attached personnel.
- Tactical deploys, sustains, and defends the detachment during contingency operations.

5-28. This unit depends on the appropriate Army units for health, finance, legal, and food service support; chaplain assistance; NBC decontamination; supplemental transportation services; and appropriate units for DS/GS maintenance of CE equipment. The force has only one of these units.

5-29. This unit has a detachment headquarters, operations/assessment team, reconstitution/installation team, and a quality assurance team (see Figure 5-3).

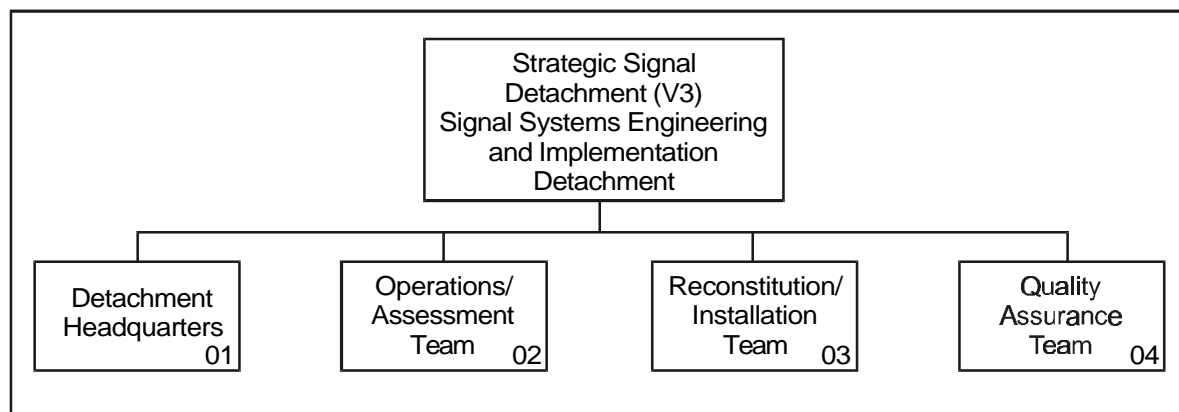


Figure 5-3. Strategic Signal Detachment (V3) Signal Systems Engineering and Implementation Detachment

Detachment Headquarters

5-30. This section provides C2 and supervision over personnel assigned or attached to the detachment.

Operations/Assessment Team

5-31. This team plans and assesses survivability/ sustainment of strategic signal systems and evaluates collateral damage to strategic signal systems as a result of hostilities.

Reconstitution/Installation Team

5-32. This team provides reconstitution/rehabilitation of damaged strategic signal equipment, systems, and networks to a minimum acceptable level of service in support of the TA C2 infrastructure.

Quality Assurance Team

5-33. This team performs follow-on quality assurance on strategic/sustaining-base communications systems to bring full level of service as battlefield conditions permit.

STRATEGIC SIGNAL DETACHMENT (V4) SPECIAL COMMUNICATIONS SUPPORT, TOE PENDING APPROVAL

5-34. This unit is forward deployed and can provide mission support to intra-theater. Its mission is to provide COMSEC logistical support to specified intelligence and security command (INSCOM) units.

5-35. This unit–

- Commands, controls, and supervises assigned and attached personnel.
- Maintains the classified and unclassified LAN.
- Maintains classified circuits.
- Provides secure and unsecure phones inside a controlled access building.

5-36. This unit depends on the appropriate Army units for health, finance, legal, and food service support; chaplain assistance; NBC decontamination; supplemental transportation services; and appropriate units for DS/GS maintenance of CE equipment. The force has only one of these units.

5-37. The unit has a detachment headquarters, COMSEC maintenance section and a DISN section (see Figure 5-4).

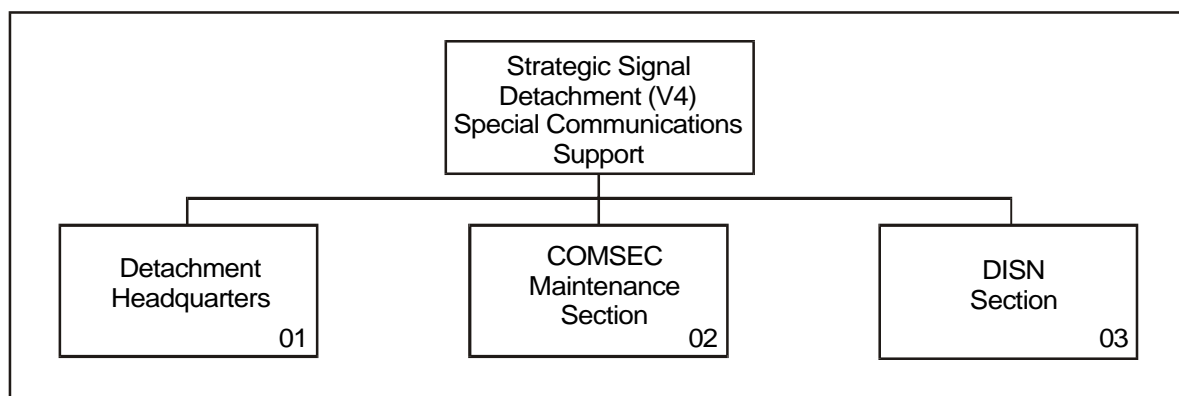


Figure 5-4. Strategic Signal Detachment (V4) Special Communications Support

Detachment Headquarters

5-38. This section provides C2 and supervision over personnel assigned or attached to the detachment.

COMSEC Maintenance Section

5-39. This section provides COMSEC maintenance support to all US Army forces, other military departments, NATO forces, and US government agencies within the European and Middle Eastern theaters, as directed.

DISN Section

5-40. This section provides installation, operation, and maintenance of microwave communications and technical control systems and facilities.

**THEATER NETWORK AND SYSTEMS OPERATIONS CENTER (TNSOC), TOE
PENDING APPROVAL**

5-41. This unit provides 24-hour-a-day proactive and reactive support to Army information customers in forward-deployed theaters. This capability is organic to a TSC, but is required when a brigade is deployed without a TSC. This unit's mission includes managing–

- Army data/Internet protocol (IP) networks.
- Systems such as GCCSs, DMS, and standard army retail supply system-objective (SARSS-O).
- Long-haul (fiber optic, microwave, satellite, and technical control) communications systems.
- DSN.
- WAN.
- Tactical networks, when deployed.

5-42. TNSOC must also provide network support to DOIMs located in Alaska, Hawaii, Japan, and Okinawa.

5-43. TNSOC provides–

- Status information from the monitor and control functions of the network elements.
- Graphical and text representations of the overall network or system(s), individual sites, logical diagrams, and individual pieces of equipment that comprise the network or system.
- Combined network and systems management focus.
- An automated, distributed trouble-ticketing, and action request system.
- A single point of contact for problem resolution.
- Instrumentation of the managed elements to enable a remote management capability.

5-44. This unit operates as an attachment to a brigade headquarters, dependent on said headquarters for health, finance, legal, personnel, and food services; administration; billeting; chaplain assistance; NBC decontamination; and supplemental transportation services.

5-45. TNSOC has two versions of TNSOC that have the following common sections:

- Command Cell.
- Data Network Management Branch.
- Systems Management Branch.
- Information/Circuit Operations Branch.

V1 also has a transmission systems branch, and V2 has a voice switch systems branch (see Figures 5-5 and 5-6).

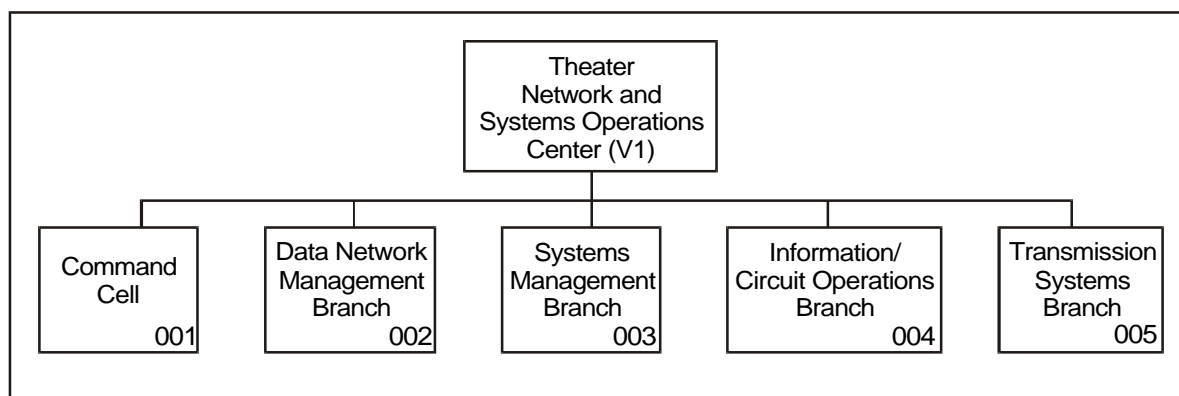


Figure 5-5. TNSOC (V1)

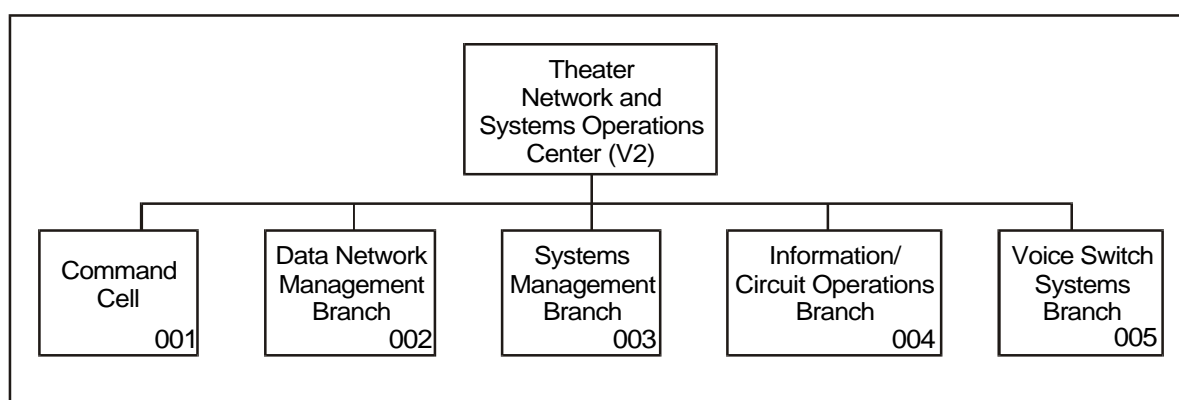


Figure 5-6. TNSOC (V2)

Command Cell

5-46. This cell provides C2 and staff supervision over the TNSOC.

Data Network Management Branch

5-47. This branch is responsible for router/terminal server installation, configuration, control, and monitoring.

5-48. **Configuration Management Cell.** This cell provides expertise and control over router/terminal server installation and configuration, as well as access control. It tests, configures, and evaluates new network equipment. This cell also troubleshoots and corrects network anomalies.

5-49. **Network Administration Cell.** This cell monitors network assets and network performance data. It also prepares and processes network performance reports.

Systems Management Branch

5-50. This branch is responsible for hardware/software configuration, TNSOC account and database maintenance, network security, and e-mail/DMS management.

5-51. **Information Systems Administration Cell.** This cell authorizes hardware/software configuration and operating system upgrades. It is responsible for network security administration, e-mail/DMS and domain name service (DNS) management, host registration, and Terminal Server Access Controller System (TSACS) administration.

5-52. **Database Management Cell.** This cell maintains the TNSOC accounts and data integrity. It performs database administration functions to include test, implementation, manipulation, and report generation.

Information/Circuit Operations Branch

5-53. This branch provides help desk service and prepares and presents the Hazcon/Outage Report for the brigade. This branch opens, assigns, and closes-out trouble tickets. It monitors outages as reported by the battalions, maintains quality assurance checks, and compiles and analyzes outage trend statistical data.

Transmission Systems Branch (V1)

5-54. This branch is for a HHC theater signal brigade without a TSC in theater. It monitors and maintains the synchronous optical network (SONET) microwave and fiber-optic systems, as well as the digital patch and access (DPAS) frames and matrix switches.

5-55. **Transmission Cell.** This cell ensures the databases, equipment, and software configurations for the associated SONET microwave and fiber-optic systems are updated and maintained. It coordinates with the regional control centers (RCCs) to collect transmission data and provide data distribution.

5-56. **Circuit Control Cell.** This cell performs the remote operations of the five DPAS frames to include circuit provisioning and administration. This cell also performs remote technical control operation of the matrix switches for automated technical control functions at six locations.

Voice Switch Systems Branch (V2)

5-57. This branch is for a HHC strategic signal brigade without a TSC in theater. It monitors the Pacific Command (PACOM) DSN assets. This branch performs outage trend analysis, compiles statistics, and forecasts DSN growth and future requirements.

THEATER STRATEGIC SIGNAL COMPANY (TSSC) MODULES, TOE PENDING APPROVAL

5-58. The TSSC consists of selected modules tailored to meet specific mission requirements. Its mission is to provide sustaining-base and strategic signal support (communications, automation, and VI) in support of the warfighter in a geographical AOR. The TSSC Headquarters provides C2, operations, logistics, and administrative support for all assigned communications and signal support teams. The company headquarters has three versions, which are regionally based due to varying equipment and information mission requirements in each region. The company headquarters with appropriate submodules are designed using METT-TC and regional CINC requirements. Each company headquarters has modular communications and signal

support teams assigned by mission requirements. The modular teams, some having several versions (small, medium, and large), are assigned based on the size of the AOR for support and/or the volume of equipment and customers supported. See Appendix D for a description of each module.